

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
 Expiration Date: 06/30/08

(Grant Number: EE00119)

Market Title: Biofuels Development

1. Market (choose one):

- | | |
|--|---|
| <input type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input checked="" type="checkbox"/> Transportation |

2. State: IL

3. Program Year: 2009

Date Start: 06/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|---|---|--|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input checked="" type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input checked="" type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 0.00 MBtus

6. Description (executive summary of goals and objectives)* :

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Market Title: Biofuels Development

BIOFUELS DEVELOPMENT PROGRAM

The Biofuels Development Program is designed to increase the production of biofuels (ethanol and biodiesel) within the State of Illinois. Grant funding will be provided for the construction of new biofuels facilities of at least 30 million gallons of production per year, or the expansion of existing facilities by at least 30 million gallons of production per year. This program is designed to:

- * Increase the production of ethanol and biodiesel fuels in Illinois
- * Expand the market and demand for Illinois agricultural products
- * Create new construction and permanent jobs in Illinois
- * Expand rural economic development in Illinois
- * Reduce the nation's dependence on foreign oil
- * Improve air quality through the reduction of harmful vehicular exhaust emissions

Illinois may consider smaller projects on a very limited case by case basis.

BIOFUELS PRODUCTION RETROFIT PROGRAM

A number of technological improvements are now available that can be used to improve the environmental aspects and resource efficiency of existing biofuels manufacturing processes. This program is designed to support the adoption of critical improvements. Eligible projects are those that plan to adopt technologies that increase the overall efficiency of the renewable fuel production process or reduce the overall full life-cycle greenhouse gas emissions of the renewable fuel produced. Such processes include measures that:

- * Improve water conservation
- * Improve energy conservation
- * Add value to bio-fuel co-products and bi-products
- * Adopt fractionation processes
- * Utilize corn fiber conversion
- * Utilize cellulosic conversion

7. Program Year Milestones* :

Milestone		Planned (Number)
1	Provide grants for biofuels facility retrofits	2
2	Provide grants for new biofuels facilities	1
3	CO2 (CO2e) reduction (metric tons)	490,424
4	Energy savings (therms) for retrofit projects	7,730,526
5	Gallons of biofuels produced (Millions)	55

8. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	168
Jobs Retained	15
Total Jobs	183

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Market Title: Biofuels Development

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Renewable Energy Market Development	
Renewable energy systems installed, by energy type	
Number of systems installed (Other renewable energy)	1
Size of systems installed (Other renewable energy)	55,000,000

10. User specified metrics (optional)*

METRICS	Planned
Loans and Grants	
Grants given	
Number of grants	3
Monetary value of grants	10,000,000

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)	
DOE	\$10,000,000.00
Market Budget Total	\$10,000,000.00
b. Leveraged funds anticipated (outside approved budget)	

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STATE ENERGY PROGRAM (SEP)
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OMB: Control No. 1910-5126
 Expiration Date: 06/30/08

(Grant Number: EE00119)

Market Title: Energy Efficiency Development

1. Market (choose one):

- | | |
|--|---|
| <input checked="" type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: IL

3. Program Year: 2009

Date Start: 06/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|--|--|--|
| <input type="checkbox"/> Agriculture | <input checked="" type="checkbox"/> Federal Energy Management Program | <input checked="" type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input checked="" type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input checked="" type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input checked="" type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input checked="" type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input checked="" type="checkbox"/> Building America | <input checked="" type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input checked="" type="checkbox"/> Schools |
| <input checked="" type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input checked="" type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input checked="" type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input checked="" type="checkbox"/> Industrial processing | <input checked="" type="checkbox"/> Traffic signals |
| <input checked="" type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input checked="" type="checkbox"/> Distributed energy generation | <input checked="" type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input checked="" type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input checked="" type="checkbox"/> Performance contracting | |
| <input checked="" type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 0.00 MBtus

6. Description (executive summary of goals and objectives)* :

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Market Title: Energy Efficiency Development

GREEN ROOFS PROGRAM

The development of Green roofs offers strong job creation, environmental, ecological, and economic benefits. This program will facilitate the development of green roofs in the state of Illinois. Eligible projects include those where a building roof is partially or completely covered with vegetation and soil, or a growing medium, planted over a waterproofing membrane. Green roofs will provide economic development, a carbon capture system and energy and maintenance cost savings. Eligible entities will include local municipalities, developers and private residence owners.

PUBLIC SECTOR EFFICIENCY

In June 2008 Illinois initiated a robust electric efficiency portfolio in the electric service territories of its two largest utilities (Commonwealth Edison and Ameren). This program is designed to fill the gaps in energy efficiency support for Illinois public sector entities. These include notably natural gas measures as well as non ComEd and Ameren electric utilities (municipal and cooperative utilities, etc.).

The Program will provide grants to public sector entities for improving the energy efficiency of equipment or processes. Measures will include electric and natural gas system efficiency improvements for lighting, motors, variable frequency drives, cooling equipment, traffic signals and exit signs, furnaces, boilers, and geothermal systems among others. The incentives are available to units of local, state, and federal government, schools, community colleges and universities.

LARGE ENERGY USER EFFICIENCY PROGRAM

In June 2008 Illinois initiated a robust electric efficiency portfolio in the electric service territories of its two largest utilities (Commonwealth Edison and Ameren). This program is designed to fill the gaps in energy efficiency support for Illinois industrial complexes and other large energy users. These include notably natural gas measures as well as non ComEd and Ameren electric utilities (municipal and cooperative utilities, etc.).

Eligible entities will be large energy users (with annual energy expenditures of \$500,000 or more), such as manufacturers, hospitals, large commercial buildings, universities, and local governments. The program will:

- * Identify and prioritize energy reduction measures and capital projects that provide the greatest return on investment.
- * Identify existing incentive opportunities that large energy users can utilize from the energy efficiency programs offered by DCEO and some Illinois utilities (Commonwealth Edison and Ameren Illinois) as part of the Illinois Energy Efficiency Portfolio.
- * Provide incentives, where none are available, for adoption of measures.

7. Program Year Milestones* :

Milestone		Planned (Number)
1	Provide grants to schools and public sector buildings	520
2	Provide grants to industrial facilities for energy efficiency	32
3	Provide grants for green roof projects	32
4	Provide grants to electric coops and municipal utilities for energy efficiency programs/projects	2
5	energy savings (therms)	29,333,333
6	energy savings (kWh)	49,605,555
7	CO2 (& CO2e) reduced	193,075

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Market Title: Energy Efficiency Development

8. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	826
Jobs Retained	0
Total Jobs	826

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Loans and Grants	
Grants given	
Number of grants	387
Monetary value of grants	30,000,000

10. User specified metrics (optional)*

METRICS	Planned

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)	
DOE	\$30,000,000.00
Market Budget Total	\$30,000,000.00
b. Leveraged funds anticipated (outside approved budget)	

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Market Title: Energy Program Administration

1. Market (choose one):

- | | |
|--|--|
| <input type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input checked="" type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: IL

3. Program Year: 2009

Date Start: 06/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input checked="" type="checkbox"/> Procurement of efficient products ** |
| <input checked="" type="checkbox"/> Alternative Fuels | <input checked="" type="checkbox"/> Federal, state and local facilities | <input checked="" type="checkbox"/> Public information |
| <input checked="" type="checkbox"/> Appliance efficiency and standards | <input checked="" type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input checked="" type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input checked="" type="checkbox"/> Rebuild America |
| <input checked="" type="checkbox"/> Biomass Power | <input checked="" type="checkbox"/> General energy efficiency for industry | <input checked="" type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input checked="" type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input checked="" type="checkbox"/> Schools |
| <input checked="" type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input checked="" type="checkbox"/> Solar power |
| <input checked="" type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input checked="" type="checkbox"/> State energy strategic plans |
| <input checked="" type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input checked="" type="checkbox"/> Curriculum development | <input checked="" type="checkbox"/> Industrial processing | <input checked="" type="checkbox"/> Traffic signals |
| <input checked="" type="checkbox"/> Demand reduction | <input checked="" type="checkbox"/> Industries of the future | <input checked="" type="checkbox"/> Transmission and infrastructure reliability |
| <input checked="" type="checkbox"/> Distributed energy generation | <input checked="" type="checkbox"/> Lighting ** | <input checked="" type="checkbox"/> Transportation alternatives |
| <input checked="" type="checkbox"/> Energy and environment | <input checked="" type="checkbox"/> Low-income Weatherization | <input checked="" type="checkbox"/> Waste management and recycling |
| <input checked="" type="checkbox"/> Energy building codes | <input checked="" type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input checked="" type="checkbox"/> Energy consumption and price statistics | <input checked="" type="checkbox"/> Motors and other industrial systems | <input checked="" type="checkbox"/> Wind energy |
| <input checked="" type="checkbox"/> Energy emergency planning | <input checked="" type="checkbox"/> Performance contracting | |
| <input checked="" type="checkbox"/> ENERGY STAR | <input checked="" type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 0.00 MBtus

6. Description (executive summary of goals and objectives)* :

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Market Title: Energy Program Administration

Provides funding for day to day operations of the Illinois State Energy Office and coordinates these activities with energy programs associated with other funding sources. The State Energy Program (SEP) will be coordinated with the programs funded by the Stripperwell Oil Overcharge Fund, the Illinois Alternative Energy Bond Fund, the Energy Efficiency Trust Fund, the Illinois Renewable Resources Trust Fund, the SEP Special Projects grants, the Energy Efficiency Portfolio funds, and other public and private funds.

Staff engage in monitoring activities, contract administration, and submission of required federal grant reporting. Administrative staff will actively seek funding sources to supplement and leverage SEP funding and ensure that SEP funding is not used to supplant existing programs. The Deputy Director of the Bureau will have ultimate responsibility for the SEP, and will approve all contracts and approve all expenditures associated with the State Energy Program. The Department's Office of Accounting will have responsibility for budgeting, accounting, record keeping and fiscal reporting associated with the SEP. Six new energy office staff positions will be paid from the ARRA-SEP funds; their salaries and fringe benefits are charged to Administration and are reflected in the total \$1,321,000 below. Travel costs associated with monitoring activities with ARRA-SEP funds are also included in this total. The remaining \$286 was estimated for supplies.

The Energy Division will implement, report on and monitor the performance of all energy programs administered by the State Energy Office. Monitoring efforts will include desk audits of program contractual items, travel reconciliation, equipment and supplies purchases and site visits. For each program included in the SEP, the Energy Division will track and report on performance as a part of the semi-annual reporting process. Each program will establish annual objectives, track performance using appropriate measurements and metrics, and report on performance in terms of energy savings and energy cost savings. These calculations will be made by applying the most recent SEP Metrics to the annual program objectives and activities, as developed by the Energy Division program administrators and managers.

Energy Policy Activities – The Energy Division is and will continue to be an active participant in the ongoing public policy dialogue regarding Illinois' and the nation's energy future. This participation takes several forms, including Board memberships (MEAA, NASEO), substantive contributions to reports, the Governor's E85 Working Group, the Interagency Climate Change Working Group, the Green Government Coordinating Council. The Energy Division will seek out opportunities to contribute information and expertise in order to shape public policy dialogue in favor of renewable energy technology and energy efficiency practices.

Current State Energy Office Programs:

Smart Energy Design Assistance Program (SEDAP)
Large-Customer Energy Analysis Program (LEAP)
Commercial Building Code Implementation
Energy Performance Contracting Program
Illinois Sustainable Education Project (ISTEP)
Illinois Energy Efficient Affordable Housing Construction Program
Low Income Energy Efficient Residential Retrofit Program
Building Industry Training and Education Program
Public Sector Electric Efficiency Program
Renewable Energy Resources Program
Renewable Fuels Programs

The State Energy Office has established \$76,000 for activities related to building energy code compliance, enforcement, and training activities to enable jurisdictions to achieve at least 90 percent compliance of new and renovated building spaces within 8 years. These funds are included in the total DOE funds in this narrative worksheet. Programs that will be funded in part with SEP funds are outlined in more detail in separate narrative information worksheets. Program areas include Biofuels Development, Energy Efficiency and Renewable Energy Development, and Manufacturing/Processing.

7. Program Year Milestones* :

Milestone		Planned (Number)

8. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	6
Jobs Retained	0
Total Jobs	6

Market Title: Energy Program Administration

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Special exception: No metrics for this activity	
No metrics for this activity	
Exempt from metric reporting	Yes

10. User specified metrics (optional)*

METRICS	Planned

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)	
DOE	\$1,321,000.00
Market Budget Total	\$1,321,000.00
b. Leveraged funds anticipated (outside approved budget)	

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(Grant Number: EE00119)

Market Title: Manufacturing/Processing

1. Market (choose one):

- | | |
|--|---|
| <input type="checkbox"/> Buildings | <input checked="" type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: IL

3. Program Year: 2009

Date Start: 06/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|--|---|--|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input checked="" type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input checked="" type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input checked="" type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation | <input checked="" type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input checked="" type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input checked="" type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input checked="" type="checkbox"/> Motors and other industrial systems | <input checked="" type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 0.00 MBtus

6. Description (executive summary of goals and objectives)* :

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Market Title: Manufacturing/Processing

GREEN BUSINESS DEVELOPMENT GRANT PROGRAM

The focus of the Green Business Development Grant Program is to support domestic renewable energy and energy efficiency adoption through the development of renewable energy and energy efficiency businesses and component manufacturers. Projects that develop and expand the renewable energy sector and corresponding supply chain as well as those that produce energy efficient products while improving the economy of the State through new business development are being targeted.

MATERIAL PROCESSING CENTER PROGRAM

Recycling material versus landfilling creates up to 6-10 times as many jobs, saves energy and generates cost-effective materials that are cycled back into the economic mainstream as manufacturing feedstock. Recycling in Illinois each year:

- * Diverts over 9.1 million tons of useful materials from landfills annually and saves enough energy to heat and light 578,000 homes.
- * Reduces pollutants in Illinois by 21,500 tons of water contaminants and 131,000 tons of air contaminants annually.
- * Saves 53.3 million trees from virgin paper production.
- * Reduces 4 million tons of carbon dioxide emissions by manufacturing with recycled commodities in Illinois.

The key barrier to further development of recycling initiatives is the existence of processing facilities for collected materials. This program will support the development of such centers for targeted areas of the solid waste stream including organics, cardboard and colored glass. Projects will:

- * Improve the recovery, use, reuse, manufacture and sale of recyclable commodities and/or recycled-content products.
- * Divert material from the solid waste stream by either increasing the supply of recyclable commodities, and/or increasing the use of recyclable commodities as manufacturing feedstock.

Projects may also involve technical issues that are unique for companies planning to convert their operations to increase the use of recyclable commodities in manufacturing.

7. Program Year Milestones* :

Milestone		Planned (Number)

8. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	978
Jobs Retained	0
Total Jobs	978

9. Specific metric activity (required)**

(Grant Number: EE00119)

Market Title: Manufacturing/Processing

SPECIFIC METRICS	Planned
Loans and Grants	
Grants given	
Number of grants	25
Monetary value of grants	30,000,000

10. User specified metrics (optional)*

METRICS	Planned

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)	
DOE	\$30,000,000.00
Market Budget Total	\$30,000,000.00
b. Leveraged funds anticipated (outside approved budget)	

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(Grant Number: EE00119)

Market Title: Renewable Energy Development

1. Market (choose one):

- | | |
|---|---|
| <input type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input checked="" type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: IL

3. Program Year: 2009

Date Start: 06/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|---|--|--|
| <input type="checkbox"/> Agriculture | <input checked="" type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input checked="" type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input checked="" type="checkbox"/> Biomass Power | <input checked="" type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input checked="" type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input checked="" type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input checked="" type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input type="checkbox"/> Commercial buildings | <input checked="" type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input checked="" type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input checked="" type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 0.00 MBtus

6. Description (executive summary of goals and objectives)* :

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET
(Grant Number: EE00119)

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

Market Title: Renewable Energy Development

Illinois boasts significant potential for renewable power generation: wind, solar, biogas, biomass and hydro-electric production offer both economic and environmental benefits. This program is designed to foster the investment in and the development and use of renewable energy resources to generate significant amounts of clean, renewable, american energy that can be generally sold into the electricity market. Facilitation of such investment in renewable energy projects will bring strong economic development benefits including new income streams, new jobs, new investment, and new property tax revenues for local governments.

The focus of this program will be non-wind utility scale renewable generations as wind powered utility scale projects receive substantial support under ARRA. Wind projects that clearly demonstrate that insufficient funding is available through other sources may also be considered.

While a number of utility-scale wind projects are currently under development in Illinois, so-called small scale, "community wind" projects are not financially viable without assistance. This program is targeted at smaller projects developed by entities such as municipal electric utilities, cooperative electric utilities, schools, universities, local governments or partnerships between these entities to install a small number (1-3) of average sized (1 MW) wind turbines. Beyond job creation, benefits of these systems include:

- * 0.9 - 1 MW wind turbine project can serve a large percentage of these entities electricity needs.
- * single 0.9 - 1 MW wind turbine will offset over 5,450 tons of CO₂, 17 tons of SO₂, 7 tons of NO_x, and 6.5 ounces of Hg per year.
- * Many of these projects encompass areas of the state that have been shown to be excellent areas for wind development but have not been developed by utility scale projects due to limitations in the Illinois transmission grid.
- * These projects serve as a hedge for these entities against likely future fossil fuel price volatility

7. Program Year Milestones* :

Milestone		Planned (Number)
1	provide grants for renewable energy projects with sale of energy produced	6
2	provide grants for renewable energy projects for own use	29
3	renewable energy generated (MWh)	160,320
4	CO ₂ (& CO ₂ e) reduced	127,000

8. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	1,158
Jobs Retained	0
Total Jobs	1,158

9. Specific metric activity (required)**

DOE F 540.1
(08/05)

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STATE ENERGY PROGRAM (SEP)
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OMB: Control No. 1910-5126
 Expiration Date: 06/30/08

(Grant Number: EE00119)

Market Title: Renewable Energy Development

SPECIFIC METRICS	Planned
Loans and Grants	
Grants given	
Number of grants	35
Monetary value of grants	30,000,000

10. User specified metrics (optional)*

METRICS	Planned
Renewable Energy Market Development	
Renewable energy systems installed, by energy type	
Number of systems installed (Wind energy)	12
Size of systems installed (Wind energy)	4
Number of systems installed (Solar energy)	19
Size of systems installed (Solar energy)	16
Number of systems installed (Other renewable energy)	4
Size of systems installed (Other renewable energy)	14

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)	
DOE	\$30,000,000.00
Market Budget Total	\$30,000,000.00
b. Leveraged funds anticipated (outside approved budget)	

**Please use additional pages if more space is needed.*

***Mandatory requirement*